

D 23/19



- **NO LEAKS**
- **NO PACKING ADJUSTMENTS**

HOKE



-RING SEALED

BAR STOCK NEEDLE VALVES

6-10-56

New HOKE O-RING SEALED

in design...

Hoke engineered this new valve to do away with traditional valve maintenance headaches and performance problems. Look carefully at these engineering features designed to improve performance and lower maintenance costs on your equipment.

▶ Easy-grip die-cast aluminum handwheel provides exactly the right amount of closing force.

▶ Centerless ground type 303 stainless steel spindle eliminates binding.

▶ O-ring stem seal does away with packing leaks and adjustments, permits finger-tip control.*

▶ Back-seating feature permits packing or O-ring replacement under pressure.

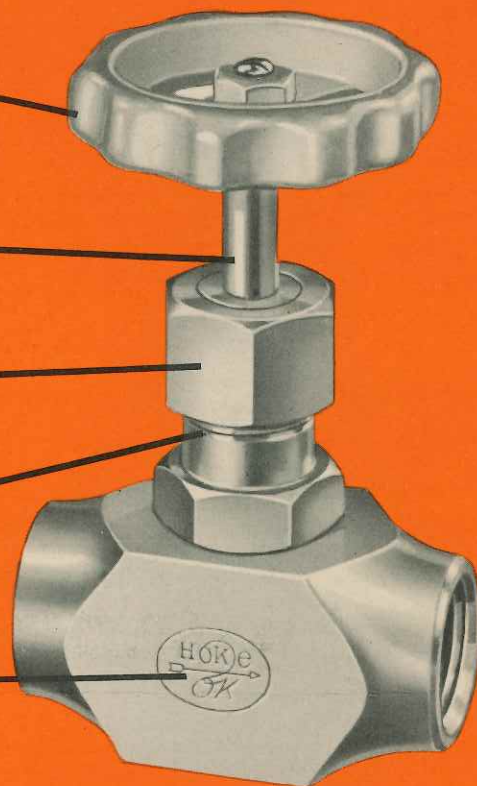
▶ Self-aligning spindle makes it easy to shut off tight (without using wrenches) throughout the life of the valve.

*Packing available for high temperature or corrosive service.

**Typical
uses**

in appearance...

This neat, trim valve, carefully finished on the outside as well as within, will add sales appeal to your hydraulic or pneumatic equipment. For instrument panels and test stands, panel mounting is available including a black, plastic handwheel.



Bar stock needle valves are designed for throttling and shutoff of water, oil, gas and other fluids in applications such as these:

- AIRCRAFT & AUTOMOTIVE TEST STANDS
- HYDRAULIC EQUIPMENT
- PNEUMATIC EQUIPMENT
- GAS ANALYZERS
- PILOT PLANTS
- TEST INSTRUMENTS
- TOOLS & FIXTURES

BAR STOCK NEEDLE VALVES

270 series specifications

MATERIALS Available in brass, carbon steel, 430F chrome stainless and type 316 stainless (for extremely corrosive conditions). A combination valve with carbon steel bonnet and 430F chrome stainless body is available for high temperature service. All valves are equipped with type 303 stainless steel spindles except for PY270 series (all 316 SS).

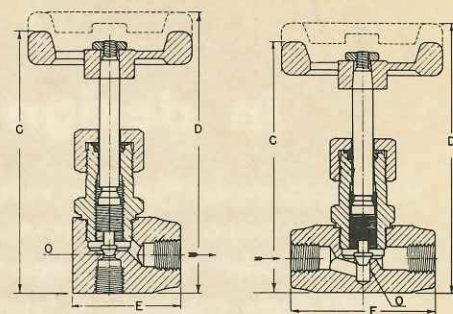
STEM SEAL Buna-N type synthetic rubber O-ring is standard except as follows:

Corrosive service—Type 316 stainless steel valves (PY series) are Teflon packed.

High temperature service—The PCF series is equipped with high temperature asbestos packing.

Graphite, asbestos packing is available for any valve on order.

SIZES Globe pattern— $\frac{1}{8}$ " to $\frac{1}{2}$ " female pipe threads; angle pattern— $\frac{1}{8}$ " to $\frac{3}{8}$ " female pipe threads. Male—female ends and other special combination ends are available when ordered in production quantities.



TEMPERATURE LIMITS

	(Degrees Fahrenheit)	
	Min.	Max.
O-Ring Seal	-40	160
Hi-Temp Packing	—	800
Graphite Asbestos Packing	-60	600
Teflon Packing	-60	500

PRESSURE RATINGS

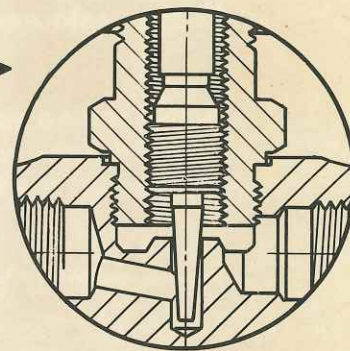
	(at normal temperature)
Brass valves	3500 psi
Steel valves	5000 psi

270 series	Size (NPT Female)	Brass Cat. No.	430F SS Cat. No.	316 SS Cat. No.	Carbon Steel Cat. No.	Carbon & SS (Hi-Temp.) Cat. No.	O Orifice	C Closed	D Open	E	H panel mfg. only
GLOBE PATTERN	$\frac{1}{8}$ "	RB270	RF270	PY270	RC270	PCF270	.170"	$3\frac{1}{4}$ "	$3\frac{15}{32}$ "	$1\frac{7}{8}$ "	$1\frac{1}{8}$ "
	$\frac{1}{4}$ "	RB271	RF271	PY271	RC271	PCF271	.188"	$3\frac{1}{4}$ "	$3\frac{15}{32}$ "	$1\frac{7}{8}$ "	$1\frac{1}{8}$ "
	$\frac{3}{8}$ "	RB272	RF272	PY272	RC272	PCF272	.250"	$3\frac{3}{8}$ "	$3\frac{19}{32}$ "	2"	$\frac{3}{4}$ "
	$\frac{1}{2}$ "	RB273	RF273	PY273	RC273	PCF273	.313"	4"	$4\frac{1}{4}$ "	$2\frac{1}{2}$ "	1"
ANGLE PATTERN	$\frac{1}{8}$ "	RB275	RF275	PY275	RC275	PCF275	.170"	$3\frac{3}{8}$ "	$3\frac{5}{8}$ "	$1\frac{13}{32}$ "	$\frac{3}{4}$ "
	$\frac{1}{4}$ "	RB276	RF276	PY276	RC276	PCF276	.188"	$3\frac{3}{8}$ "	$3\frac{5}{8}$ "	$1\frac{13}{32}$ "	$\frac{3}{4}$ "
	$\frac{3}{8}$ "	RB277	RF277	PY277	RC277	PCF277	.250"	$3\frac{3}{8}$ "	$3\frac{13}{16}$ "	$1\frac{1}{2}$ "	$\frac{7}{8}$ "

IMPORTANT NOTE: Brass & 430F stainless & carbon steel valves are normally supplied with "O" ring stem seal. If asbestos type packing is required, change Cat. No. prefix from R to P and specify "asbestos packing" on your order.

280 series metering valve specifications

The 280 series is a modified bar stock valve for precision flow control. It has a long, fine needle point (8° included angle) and a micrometer spindle thread, 20 turns to open (See outline drawing). Two orifice sizes are available $\frac{1}{16}$ " and $\frac{1}{8}$ " (See flow curves on back page). The 280 series is made only in brass with O-ring stem seal. For other specifications, see 270 series above.



280 Series	Size (NPT Female)	Brass $\frac{1}{16}$ " Orifice Cat. No.	Brass $\frac{1}{8}$ " Orifice Cat. No.	E	H	C Closed	D Open
GLOBE PATTERN	$\frac{1}{8}$ "	2RB280	4RB280	$1\frac{7}{8}$ "	$1\frac{1}{8}$ "	$3\frac{1}{16}$ "	$3\frac{15}{32}$ "
	$\frac{1}{4}$ "	2RB281	4RB281	$1\frac{7}{8}$ "	$1\frac{1}{8}$ "	$3\frac{1}{16}$ "	$3\frac{15}{32}$ "
ANGLE PATTERN	$\frac{1}{8}$ "	2RB285	4RB285	$1\frac{13}{32}$ "	$\frac{3}{4}$ "	$3\frac{3}{16}$ "	$3\frac{19}{32}$ "
	$\frac{1}{4}$ "	2RB286	4RB286	$1\frac{13}{32}$ "	$\frac{3}{4}$ "	$3\frac{3}{16}$ "	$3\frac{19}{32}$ "

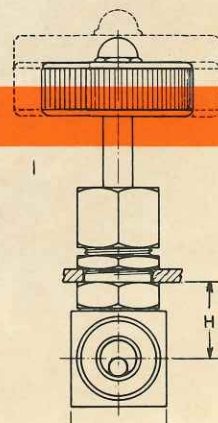
NOTE: Metering valves are supplied with black plastic handwheels

high vacuum service

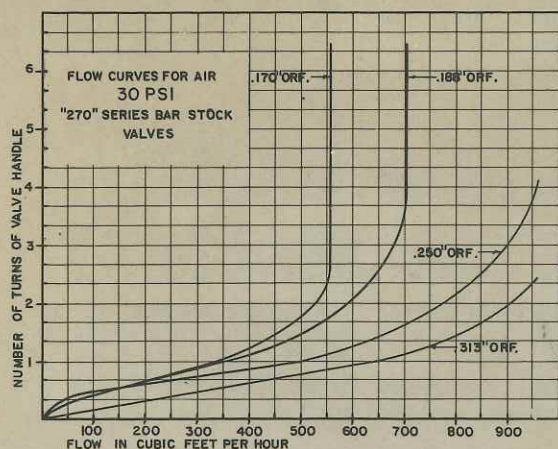
These valves equipped with O-ring stem seal, are suitable for non-critical high vacuum service. For such applications, it is advisable to specify valves "HELIUM LEAK TESTED" on your order.

panel mounting

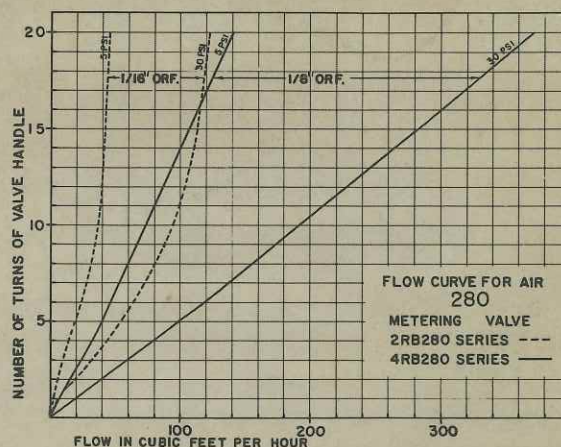
Both the 270 and the 280 series are available for panel mounting with lock nut and serrated black plastic handwheel. To order panel mounting valves, add the prefix letter "D" to the catalog number (example DRB 270) and specify "PANEL MOUNTING" on your order. Panel hole size required: $41/64$ " ($49/64$ " for $\frac{1}{2}$ " size).



FLOW CHARACTERISTICS FOR BAR STOCK VALVES



These flow curves show the excellent control obtainable with minimum pressure drop in the 270 series.



These flow curves for the 280 series metering valves show the remarkable range of control afforded by the 20-turn spindle and 8° angle spindle point.

OTHER HOKE PRODUCTS

FORGED NEEDLE VALVES

Designed for leak-tight, long life service in applications where quality of design and manufacture is important. Bodies withstand 2000 psi and integral bonnet construction is simplest and strongest available design. Write for Bulletin NV 555.

PRESSURE REGULATORS

Use for accurate control of compressed gasses at reduced pressure. Standard models available to adjust delivery pressures as high as 3000 psi and as low as 0.1 psi. See Bulletin PR 455.

STAINLESS STEEL CYLINDERS

Pressure sample containers in sizes from 10cc to 1 gal.; pressure ratings up to 1800 psi available equipped with valves and safety devices. Write for Bulletin SC 455.

TOGGLE VALVES

Hoke toggle valves fit right into design of quality test equipment from aircraft test stands to gas analyzers. Quick, positive action, vacuum-tight seal and easily identified position add to the value of any instrument. Flip...they're completely on; flip...they're completely off! Write for Bulletin NV 555.

PACKLESS VALVES

Diaphragm and bellows types in brass, stainless steel and Monel for critical high vacuum and corrosive service. Bulletin BV 854.

FLO-GAGES

Variable area type flowmeters for laboratory, instrument panel and pilot plant applications. Ask for Bulletin FG 455.

HOKE authorized distributors

Joseph H. Bertram & Co., Inc.
233 Harvard Street
Brookline 46, Mass.
Beacon 2-3212

Braun Corp.
1363 So. Bonnie Beach Place
Los Angeles 54, Cal.
Angeleno 9-9311

Braun-Knecht-Heimann Co.
1400 16th Street
San Francisco 19, Cal.
Hemlock 1-8800

Control Products, Inc.
998 Farmington Avenue
West Hartford 7, Conn.
Adams 3-9823

Crawford Fitting Co.
884 East 140th Street
Cleveland 10, Ohio
Liberty 1-5533

R. S. Crum & Co.
4 New Providence Rd.
Mountainside, N. J.
Westfield 2-2324

W. H. Curtin & Co.
P. O. Box 118
Houston 1, Texas
Walnut 3-1661

J. R. Douglass Co.
4511 Erie Avenue
Cincinnati 27, Ohio
Bramble 5153

Fogleman Company
3737 Poplar Avenue
Pittsburgh 34, Pa.
LEhigh 1-3249

J. G. Henry Co.
P. O. Box 133
Columbus, Ohio
HUDson 8-8347

Industrial Instrument Supply
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Spokane 2, Wash.
Madison 1782

Shelby Jones Co.
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Havertown, Pa.
Hilltop 6-6600

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Montreal 25, Quebec, Canada
Plateau 5468

Kirk Equipment Limited
60 Newcastle Street
Mimico, Ontario, Canada
Clifford 9-6821

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Arlington Heights, Ill.
Clearbrook 5-3360

Moody-Price, Inc.
P. O. Box 4587 Audubon Sta.
Baton Rouge, La.
Phone 3-1016

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Rochester 18, N. Y.
Browning 3040

Guy Speaker Co.
86 Elmo Park
Hopkins, Minnesota
West 5-1144

James C. White Co.
7 Clarendon Avenue
Greenville, S. C.
Phone 5-7954

The Zopff Company
3545 Lindell Blvd.
St. Louis 3, Missouri
Jefferson 5-8580



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